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MEDICAL APPLICATIONS USING MICROCOMBUSTION

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application is a continuation-in-part of copending Application Serial Nos. 10/253,866 filed September 24, 2002 and 10/200,794, filed July 22, 2002, ^{PAT 6,824,555} the contents of which are hereby incorporated by reference.

FIELD OF THE INVENTION

[0002] The present invention relates to surgical procedures for delivering intense heat to tissue, and more particularly, the delivery of intense heat through the combustion of hydrogen and oxygen.

BACKGROUND OF THE INVENTION

[0003] An essential part of surgery is the ability to make precision incisions. With the incisions, there is the production of blood from cut blood vessels. Procedures for stemming the flow of blood generally involve procedures for cauterizing the bleeding vessels. Among available procedures include the use of lasers, ligation and radio frequency cauterization. Intense heat can also be used for surgical procedures other than cauterization of blood vessels. Localized heat release, or generation, has been achieved by several means. Current approaches for heating tissue include: gamma radiation, lasers, ultrasound, microwave, radio frequency waves, electrical resistance heating, and hot water heating.

[0004] A significant drawback to each of these methods is subjecting the body to strong electromagnetic fields and often the surrounding tissue is subjected to the